Figure 1. Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

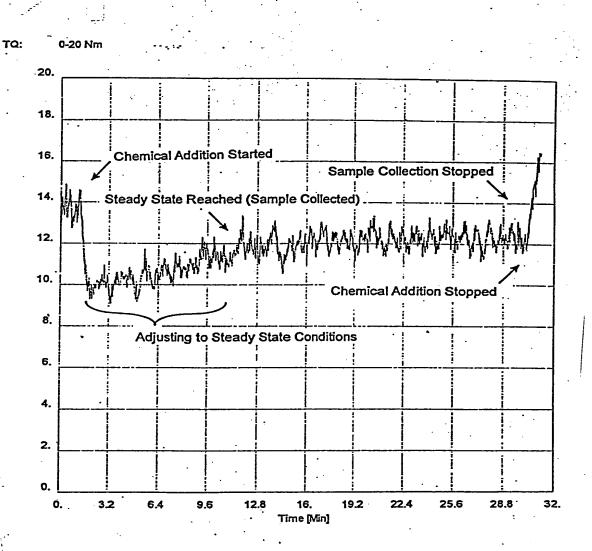


Figure ? Proton NMR Spectra for PHBV and HEMA Grafted PHBV **PHBV** dentilinari (1111) .e ppm 3 4 15 32.64 HEMA Grafted PE HEMA Peak (2.0 ppm) <u>::</u> 1.95 ON OF

Figure, 3 Melt Rheology at 180°C for PHBV and HEMA Grafted PHBV

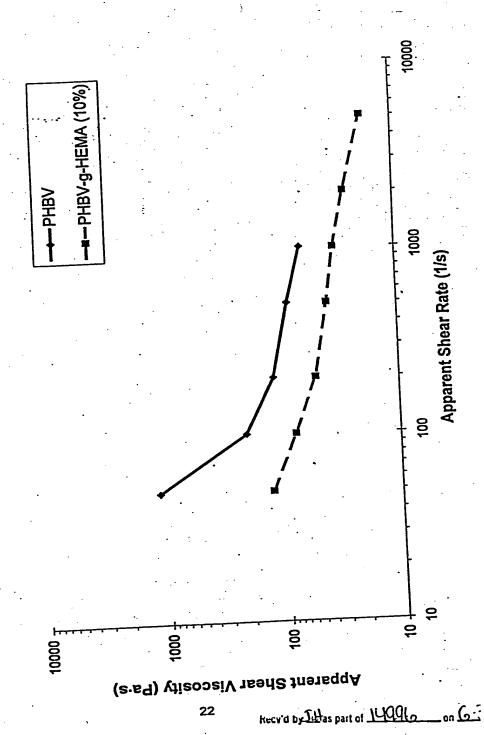
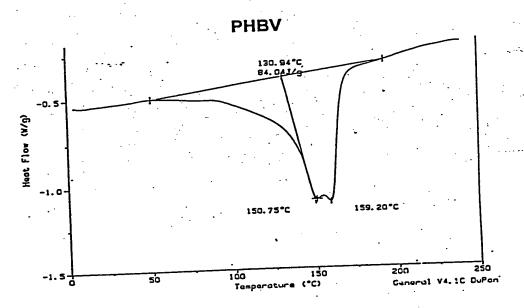
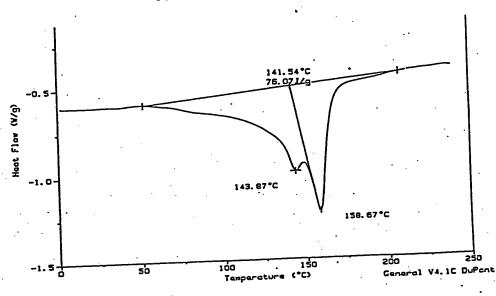


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV



HEMA Grafted PHBV





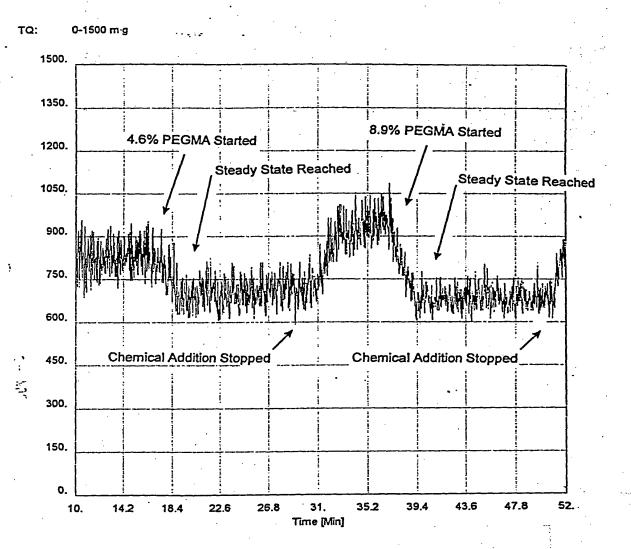


Figure Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040 freedstrict treefreetfreesfereed erede and an description described 0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 اـــا 33.53 33.13 PEGMA Peak (1.0 ppm) **PEGMA Grafted PB** ուխախափափակավ 1.0 0.8 ppm - [receptive property property

98.95

1.05

Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)

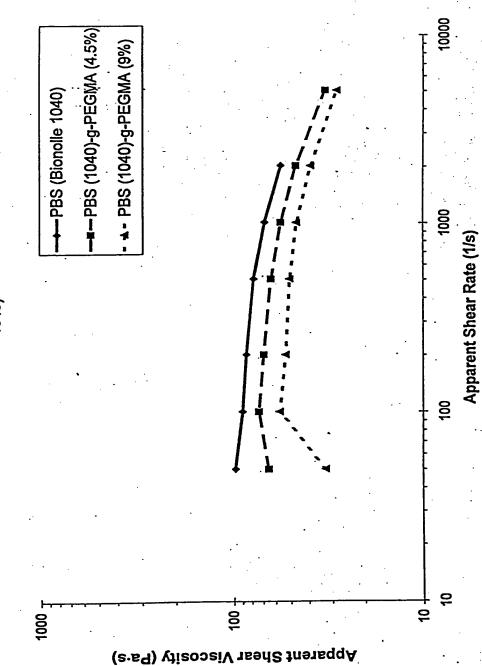


Figure 8 | Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

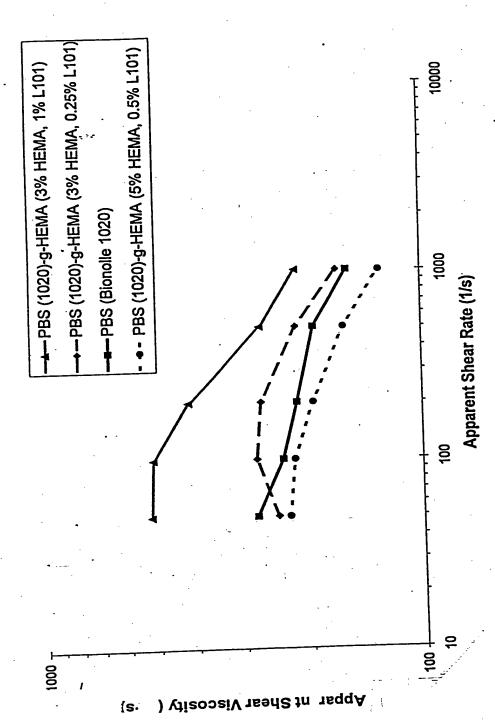
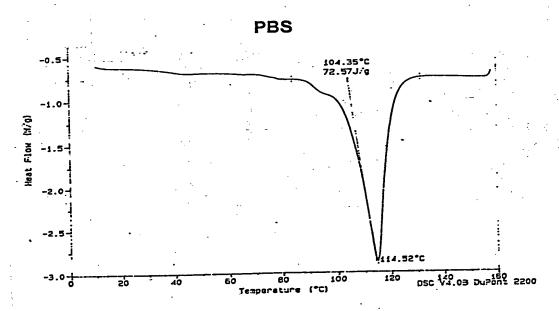


Figure 9 DSC Thermogram for PBS and . EGMA Grafted PBS 1040



PEGMA Grafted PBS 1040

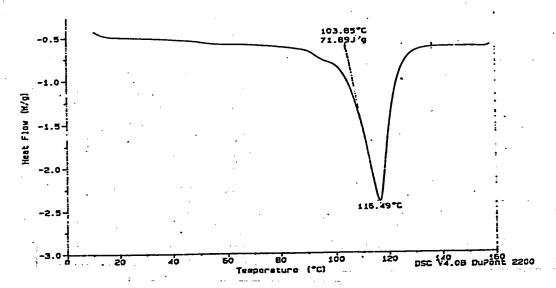
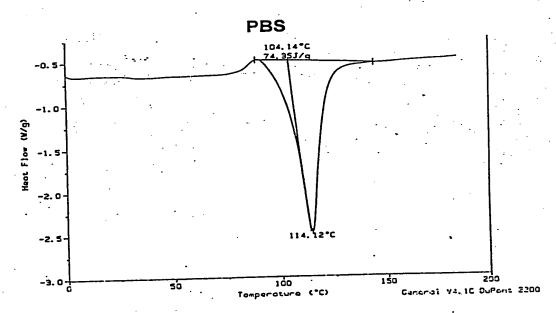


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020



HEMA Grafted PBS 1020

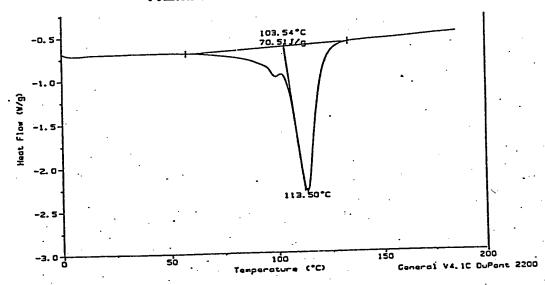


Figure 11

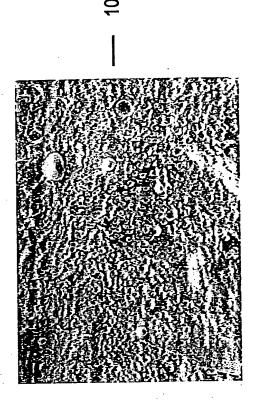


Figure 12

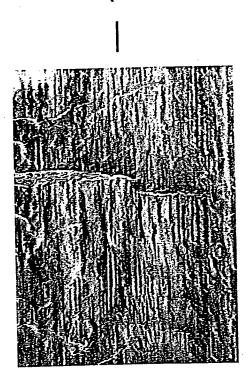
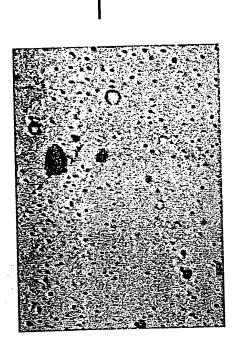
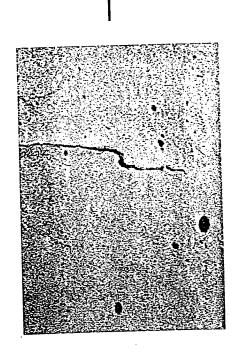


Figure 12



- 10 µm

Figure 14



10 µm

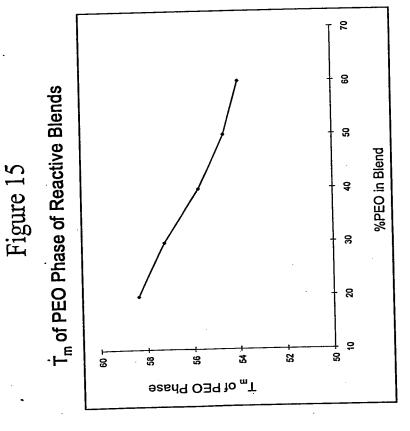


Figure 16

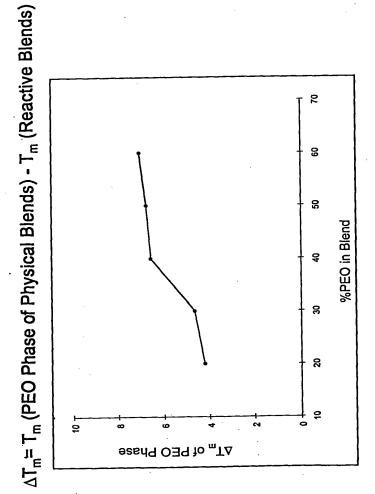
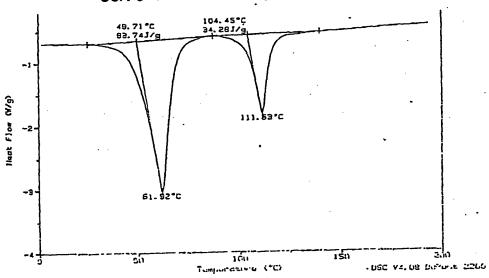


Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends





30/70 PBS/PEO Reactive Blend

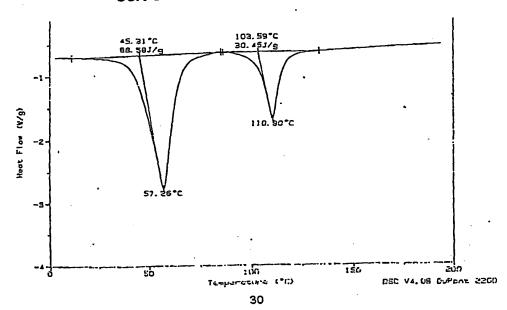


Figure 1.8 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

